

WHAT IS CLAIMED IS:

1. A tooth whitening product, comprising:
a water hydratable polymer and a plasticizer formed into a film having a first side and a second side; and
a tooth whitening agent applied as coating to one side of the film.
2. The tooth whitening product of claim 1, wherein said tooth whitening agent is applied as a solid.
3. The tooth whitening product of claim 1, wherein said tooth whitening agent is applied to said film in combination with a solvent after formation of said film.
4. The tooth whitening product of claim 3, wherein said solvent can solubilize said water hydratable polymer.
5. The tooth whitening product of claim 1, wherein said water hydratable polymer is an ethylene oxide polymer.
6. A tooth whitening product, comprising:
a film including a water hydratable polymer and a tooth whitening agent;
a mesh comprising a plurality of fibers, said fibers arranged to provide a plurality of void spaces between said fibers; and
wherein said film at least partially fills said mesh.
7. The tooth whitening product of claim 6, wherein said fibers have a diameter between about 1 micron and about 200 microns.
8. The tooth whitening product of claim 6, wherein said water hydratable polymer is polyvinylpyrrolidone.

9. The tooth whitening product of claim 8, wherein said tooth whitening agent is hydrogen peroxide and said layer further comprises water and polyethylene glycol.
10. The tooth whitening product of claim 6, wherein said fibers are formed from a material selected from the group consisting of polypropylene, polyethylene, and cellulose.
11. A process for making a tooth whitening product, comprising:

forming a film including a water hydratable polymer and a plasticizer, wherein said film has a first side and a second side; and

coating a tooth whitening agent onto one of said sides of said film.
12. The process of claim 11, wherein said tooth whitening agent is a solid that is sprayed onto said film.
13. The process of claim 11, wherein said tooth whitening agent is solubilized in a solvent and the solution of said solvent and said tooth whitening agent is applied to said film.
14. The process of claim 13, wherein said solvent solubilizes said tooth whitening agent and said water hydratable polymer.
15. A tooth whitening product, comprising:
a water hydratable polymer and a plasticizer formed into a film having a first side and a second side, said film comprising a tooth whitening agent; and
wherein said film further comprises a water insoluble additive.

16. The tooth whitening product of claim 15, wherein said water insoluble additive is selected from the group consisting of polyolefins, polyester, calcium phosphate, calcium pyrophosphate, titanium dioxide and silica.
17. The tooth whitening product of claim 15, wherein said water insoluble additive comprises between about 10% and about 80% by weight of said film.
18. The tooth whitening product of claim 15, further comprising a layer disposed adjacent said film formed from a second water hydratable polymer distinct from said water hydratable polymer of said film.